

CLAIMS

1. A variant of a parent *Coprinus* laccase, which comprises a mutation in a position corresponding to at least one of the following positions in SEQ ID No. 1:

5 F21,
H91,
F112,
H133,
H153,
10 Y176,
H230,
H309,
F335,
Y347,
15 S349,
Y375,
Y416,
F449,
E455,
20 F456, and/or
Y490.

2. A variant of a parent *Myceliophthora thermophila* laccase, which comprises a mutation in a position corresponding to at least one of the following positions in SEQ ID No. 10:

25 V52,
G121,
F141,
Y177,
H206,
30 M260,
P336,
V406,
T365,
I380,

I382,
A506,
W507, and/or
W543.

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3. A DNA construct comprising a DNA sequence encoding a laccase variant of claim 1.

4. A recombinant expression vector which carries a DNA construct of claim 3.

10 5. A cell which is transformed with a DNA construct of claim 3.

6. A cell of claim 5, which is a microorganism.

7. A cell of claim 6, which is a bacterium or a fungus.

8. A cell of claim 7, which is an *Aspergillus niger* or an *Aspergillus oryzae* cell.

9. A method for oxidizing a substrate, comprising contacting the substrate with a laccase variant of claim 1.

10. A method for inhibiting dye transfer during washing of fabrics, comprising adding a laccase variant of claim 9 during washing.

11. A method for bleaching a textile, comprising applying a laccase variant of claim 9 to the
25 textile.

12. A detergent additive comprising a laccase variant of claim 1 in the form of a non-dusting granulate, a stabilised liquid or a protected enzyme.

30 13. A detergent additive of claim 12, which additionally comprises one or more other enzyme such as a protease, a lipase, an amylase, and/or a cellulase.

14. A detergent composition comprising a laccase variant of claim 1 and a surfactant.

15. A detergent composition of claim 14 which additionally comprises one or more other enzymes such as a protease, a lipase, an amylase and/or a cellulase.

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